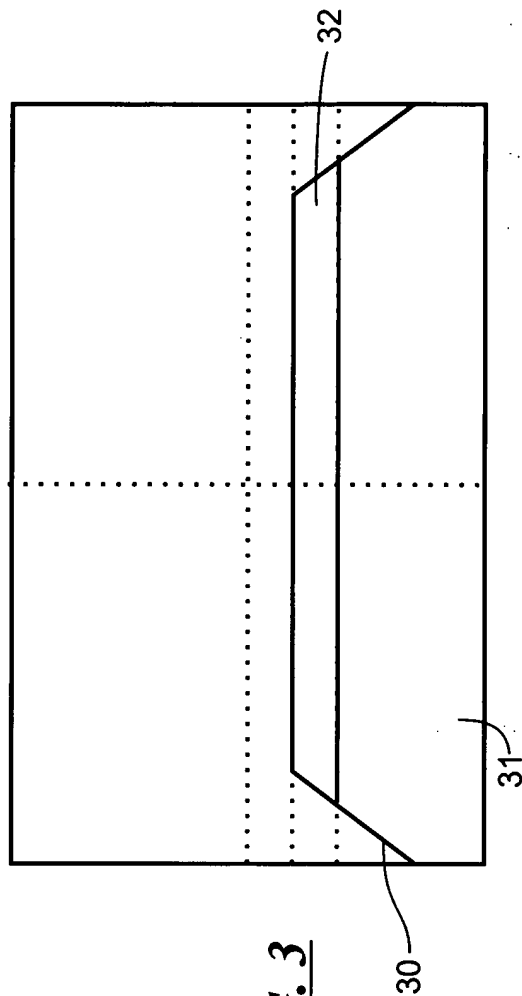
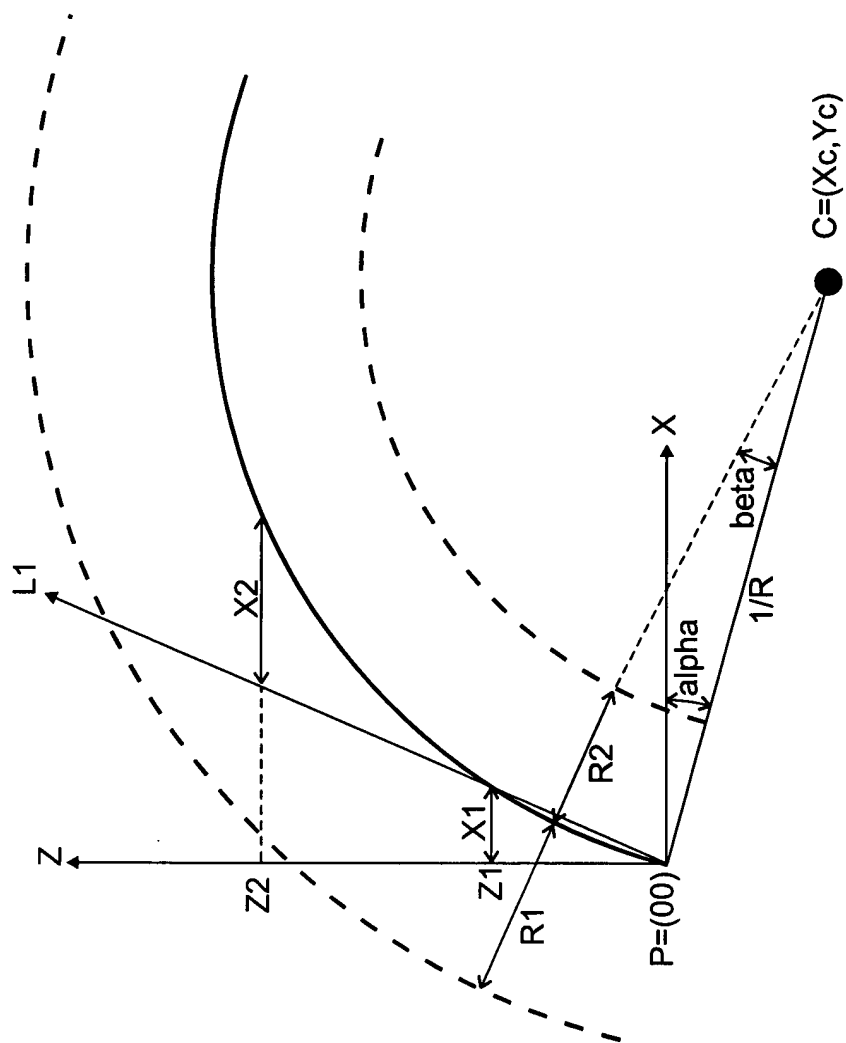


**FIG. 1**



**FIG. 3**



**FIG. 2**

200. PROCESSOR 14 RECEIVES AN IMAGE FROM THE CAMERA 14

201. PROCESSOR 14 SELECTS ONE, "i-TH," OF A PLURALITY OF THE SELECTED VALUES FOR PARAMETER X1

202. PROCESSOR 14, USING THE SELECTED VALUE FOR PARAMETER X1 AND PREDETERMINED VALUES FOR PARAMETERS X2 AND R, GENERATES AN "i-TH" WARPED IMAGE, IN WHICH THE WARPED IMAGE IS WARPED TO THE R, beta SPACE

203. PROCESSOR 14 GENERATES A DERIVATIVE WARPED IMAGE ALONG THE HORIZONTAL ("X") COORDINATE OF THE WARPED IMAGE, THE DERIVATIVE REPRESENTING THE RATE OF CHANGE OF IMAGE BRIGHTNESS AS A FUNCTION OF THE HORIZONTAL COORDINATE

204. PROCESSOR 14 APPLIES A NON-LINEAR FUNCTION TO THE DERIVATIVE WARPED IMAGE TO GENERATE A NORMALIZED DERIVATIVE WARPED IMAGE

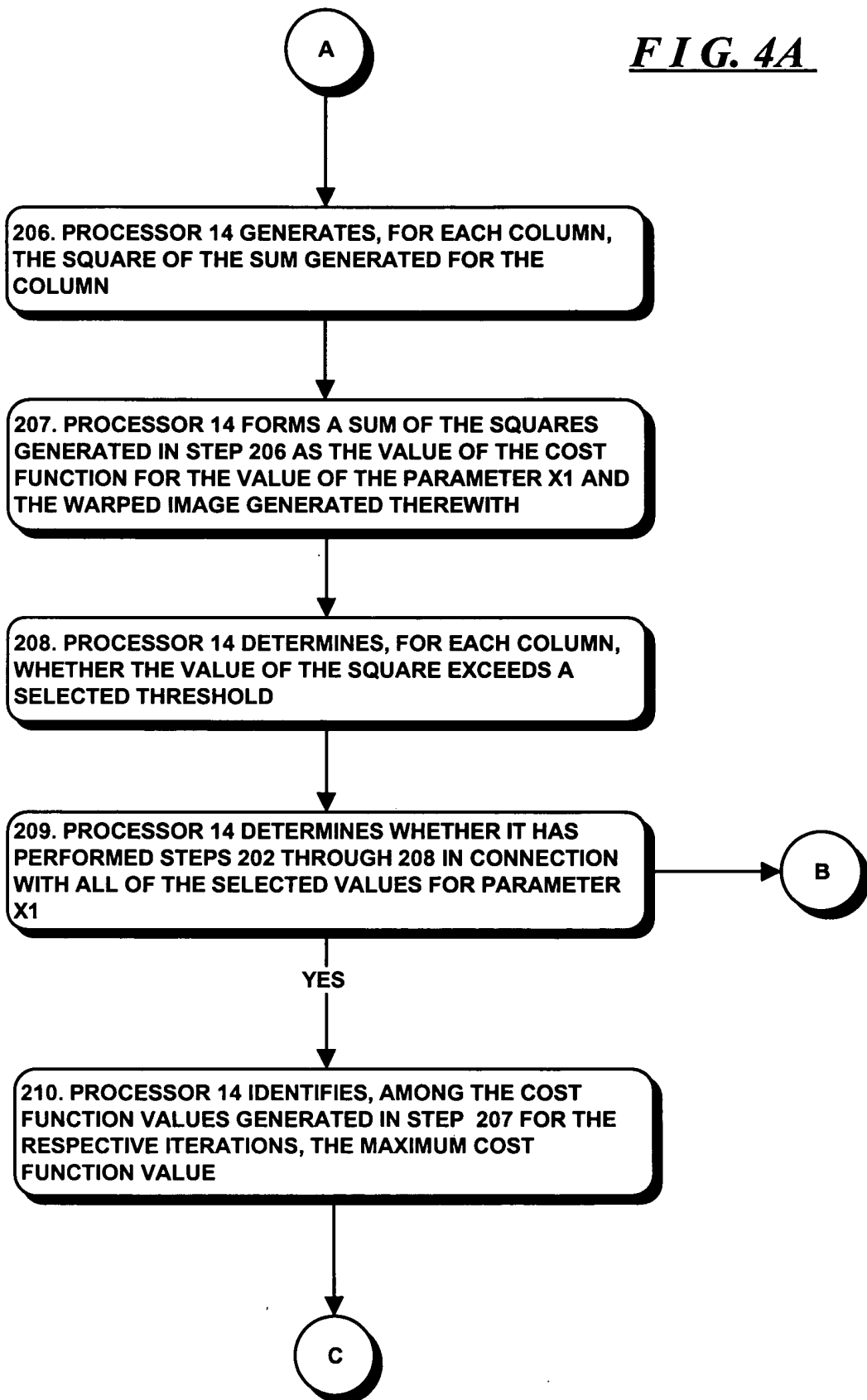
205. PROCESSOR 14, FOR EACH COLUMN OF PIXELS IN THE NORMALIZED DERIVATIVE WARPED IMAGE GENERATES A SUM OF THE PIXEL VALUES OF THE PIXELS IN THE RESPECTIVE COLUMN

A

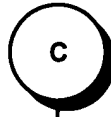
B

***FIG. 4***

***FIG. 4A***



**FIG. 4B**



**211. PARAMETER 14 DETERMINES THE VALUE OF THE PARAMETER X1 AND THE WARPED IMAGE ASSOCIATED WITH THE MAXIMUM COST FUNCTION VALUE IDENTIFIED IN STEP 209**

**212. PROCESSOR 14 PERFORMS OPERATIONS SIMILAR TO THOSE DESCRIBED ABOVE IN THE FIRST PHASE, EXCEPT THAT (A) IT PERFORMS THE OPERATIONS IN CONNECTION WITH PIXELS NOT ONLY IN THE NEAR REGION 31, BUT ALSO IN THE FAR REGION 32, AND (B) IT GENERATES THE COST FUNCTIONS ONLY IN CONNECTION WITH COLUMNS THAT WERE DETERMINED IN STEP 208 TO EXCEED THE THRESHOLD, TO DETERMINE THE VALUES FOR THE RESPECTIVE PARAMETERS.**

250. PROCESSOR 14 RECEIVES AN IMAGE

251. PROCESSOR 14 SELECTS AN INITIAL GUESS FOR  
THE VALUES FOR PITCH "d" AND COEFFICIENT "b"

252. PROCESSOR 14, USING SELECTED VALUES, WARPS  
THE IMAGE THEREBY TO GENERATE A WARPED IMAGE

253. PROCESSOR 14, FOR EACH COLUMN OF PIXELS IN  
THE WARPED IMAGE, SUMS THE PIXEL VALUES FOR THE  
PIXELS IN THE NEAR REGION 31 IN THE COLUMN

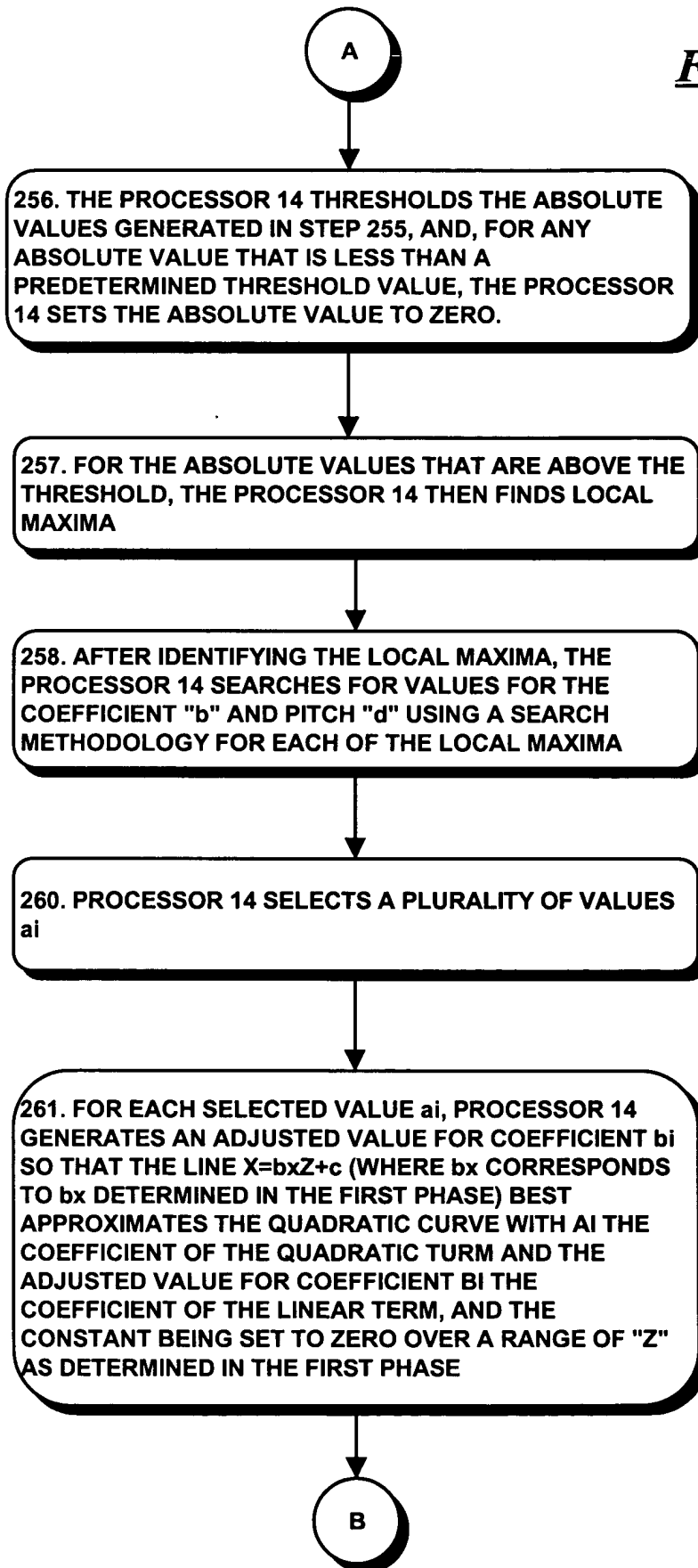
254. PROCESSOR 14 GENERATES VALUES  
REPRESENTING THE DERIVATIVE IN THE HORIZONTAL  
DIRECTION, THE DERIVATIVE REPRESENTING THE RATE  
OF CHANGE OF IMAGE BRIGHTNESS AS A FUNCTION OF  
THE HORIZONTAL COORDINATE

255. PROCESSOR 14 GENERATES VALUES THAT  
CORRESPOND TO THE ABSOLUTE VALUE OF THE  
DERIVATIVE

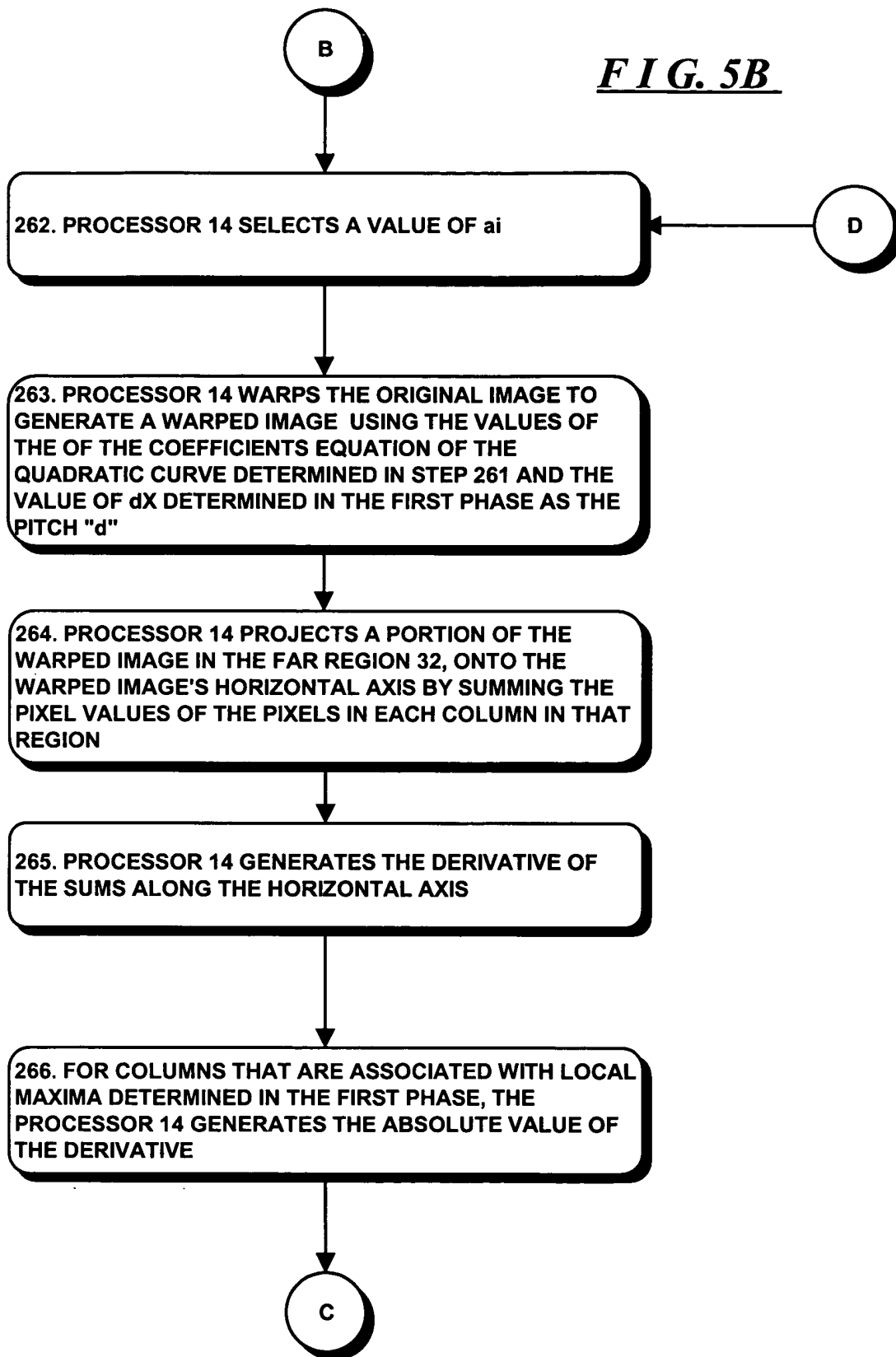
A

***FIG. 5***

**FIG. 5A**



**FIG. 5B**





**FIG. 5C**

